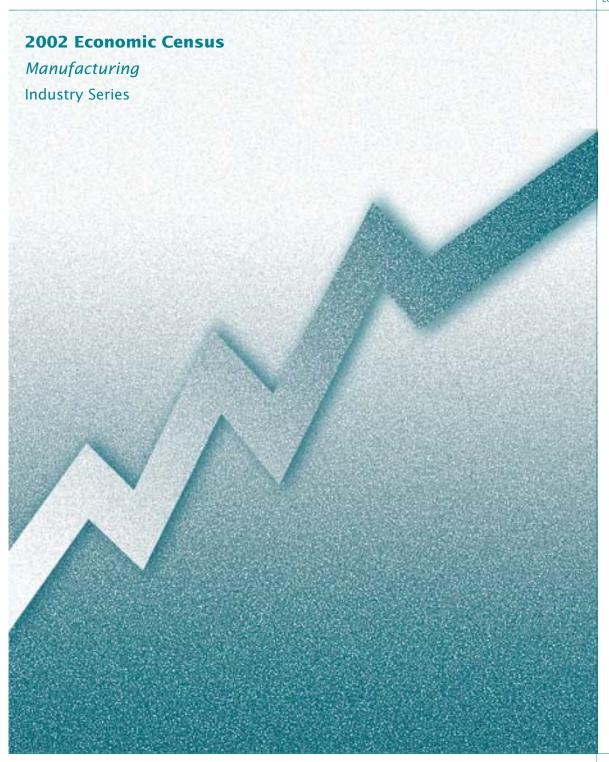
# Flat Glass Manufacturing: 2002

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#### **CONTENTS**

	duction to the Economic Census	v ix
Table	es	
1. 2. 3. 4. 5. 6a. 6b. 7.	Historical Statistics for the Industry: 2002 and Earlier Years Industry Statistics for Selected States: 2002 Detailed Statistics by Industry: 2002 Industry Statistics by Employment Size: 2002 Industry Statistics by Primary Product Class Specialization: 2002 Products Statistics: 2002 and 1997 Product Class Shipments for Selected States: 2002 and 1997 Materials Consumed by Kind: 2002 and 1997	1 2 3 4 5 6 7 8
Appe	endixes	
A. B. C. D. E. F.	Explanation of Terms NAICS Codes, Titles, and Descriptions Methodology Geographic Notes Metropolitan and Micropolitan Statistical Areas Comparability of Product Classes and Product Codes: 2002 to 1997	A-1 B-1 C-1   F-1

-- Not applicable for this report.

## Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All employees		Production workers				Total	Total	Total capital
Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	estab- lish- ments <sup>3</sup>	Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
327211, Flat glass manufacturing	13 N N N N	36 N N N N 36	10 683 11 044 11 652 11 387 11 500 11 579	469 781 530 805 541 291 568 879 540 673 535 454	9 457 9 358	18 417 18 715 19 976 20 616 21 012 21 457	351 418 409 632 432 256 445 688 422 610 421 377	1 694 537 1 677 163 1 963 137 1 942 055 1 766 794 1 888 714	1 053 748 1 008 792 1 044 114 897 030 936 703 926 796	2 750 510 2 674 436 2 990 213 2 844 153 2 720 682 2 795 507	157 317 245 887 336 050 274 348 384 491 176 690

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

#### Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments <sup>2</sup>		All employees		Production workers							
Industry and geographic area		Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	tures	
327211, Flat glass manufacturing													
United States	-   -	36 6	35 5	10 683 984	469 781 44 048	8 673 779	18 417 1 729	351 418 32 666	1 694 537 167 626	1 053 748 128 061	2 750 510 298 444	157 317 5 216	

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

³Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

#### Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
327211, Flat glass manufacturing	
Companies <sup>1</sup> number .	13
All establishments <sup>2</sup> . number.  Establishments with 1 to 19 employees number.  Establishments with 20 to 99 employees number.  Establishments with 100 employees or more number.	36 1 4 31
All employees³         number           Total compensation         \$1,000           Annual payroll         \$1,000           Total fringe benefits         \$1,000	10 683 642 883 469 781 173 102
Production workers, average for year	8 673 8 735 8 754 8 637 8 545
Production worker hours	18 417 351 418
Total cost of materials         \$1,000           Materials, parts, containers, packaging, etc., used         \$1,000           Resales         \$1,000           Purchased fuels         \$1,000           Purchased electricity         \$1,000           Contract work         \$1,000	1 053 748 651 346 68 036 230 409 94 601 9 356
Quantity of electricity purchased for heat and power     1,000 kWh.       Quantity of electricity generated less sold for heat and power     1,000 kWh.	2 261 557 -
Total value of shipments         \$1,000           Primary products value of shipments         \$1,000           Secondary products value of shipments         \$1,000           Total miscellaneous receipts         \$1,000           Value of resales         \$1,000           Contract receipts         \$1,000           Other miscellaneous receipts         \$1,000	2 750 510 2 650 932 D D 86 216
Primary products specialization ratio percent.  Value of primary products shipments made in all industries \$1,000.  Value of primary products shipments made in this industry \$1,000.  Value of primary products shipments made in other industries \$1,000.	D 2 660 754 2 650 932 9 822
Coverage ratiopercent	100
Value added	1 694 537
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	290 056 208 325 24 743 56 988
Total inventories, end of year         \$1,000           Finished goods inventories         \$1,000           Work-in-process inventories         \$1,000           Materials and supplies inventories         \$1,000	295 445 199 004 31 839 64 602
Gross value of depreciable assets (acquisition costs) at beginning of year         \$1,000.           Total capital expenditures (new and used)         \$1,000.           Buildings and other structures (new and used)         \$1,000.           Machinery and equipment (new and used)         \$1,000.           Automobiles, trucks, etc., for highway use.         \$1,000.           Computers and peripheral data processing equipment         \$1,000.           All other expenditures for machinery and equipment.         \$1,000.           Total retirements         \$1,000.           Gross value of depreciable assets at end of year.         \$1,000.	3 462 773 157 317 9 501 147 816 884 2 092 144 840 69 588 3 550 502
Depreciation charges during year	172 916
Total rental payments	6 914 2 532 4 382
Total other expenses <sup>4</sup> \$1,000.  Response coverage ratio <sup>5</sup> percent.  Repair and maintenance services of buildings and/or machinery <sup>4</sup> \$1,000.  Communications services <sup>4</sup> \$1,000.  Legal services <sup>4</sup> \$1,000.  Accounting, auditing, and bookkeeping services <sup>4</sup> \$1,000.  Advertising and promotional services <sup>4</sup> \$1,000.  Expensed computer hardware and supplies and purchased computer services <sup>4</sup> \$1,000.  Refuse removal (including hazardous waste) services <sup>4</sup> \$1,000.  Management consulting and administrative services <sup>4</sup> \$1,000.  All other expenses <sup>4</sup> \$1,000.	222 647 100 53 243 2 337 D 109 D 2 952 7 913 730 9 962 144 338

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

#### Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	Pr	oduction worke	ers		Total	Total	Total capital
		All estab- lish- ments <sup>2</sup>	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
327211, Flat glass manufacturing											
All establishments Establishments with —	-	36	10 683	469 781	8 673	18 417	351 418	1 694 537	1 053 748	2 750 510	157 317
1 to 4 employees	_	_	_	_	_	_	_	_	-	_	_
5 to 9 employees	-	1	а	D	D	D	D	D	D	D	D
10 to 19 employees	_	-	-	_	_	_	_	=	=	_	_
20 to 49 employees	5	3	c	l D	₽	D	l D	D	D	D	D
50 to 99 employees	_	. 1	, b	D D	D	D	JD	D D	D	D	D
100 to 249 employees	_	11	2 191	85 254	1 758	3 823	62 295	363 031	207 965	579 377	25 537
250 to 499 employees	_	15	4 805	195 312	3 777	8 163	137 848	866 595	511 269	1 379 972	103 012
500 to 999 employees	_	4	2 474	118 517	2 093	4 427	93 720	341 995	256 336	606 845	27 683
1,000 to 2,499 employees	_	1	g	ט	ט	ט	ט	ט	D	ט	ט
2,500 employees or more	-	_	_	-	-	_	-	-	-	_	_
Administrative records <sup>4</sup>	-	_	_	_	_	_	_	_	_	_	_

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

#### Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or		All	All em	ployees	Pr	oduction work	ers		Total	Total	Total capital
product class code	Industry or primary product class	estab- lish- ments <sup>1</sup>	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
327211	Flat glass manufacturing	36	10 683	469 781	8 673	18 417	351 418	1 694 537	1 053 748	2 750 510	157 317
3272111	Flat glass (float, sheet, and plate process), made by flat glass producers	25	7 874	322 559	6 288	13 429	232 329	1 362 351	831 721	2 210 007	142 685
3272114	Other glass products, made by flat glass producers	10	2 802	146 922	2 379	4 980	118 866	331 732	221 763	539 785	14 580

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

<sup>&</sup>lt;sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

#### Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product s	hipments
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
327211	Flat glass manufacturing	N	X	X	2 660 754 2 669 034
3272111	Flat glass (float, sheet, and plate process), made by flat glass 2002.	N N	×	×	1 984 378 1 888 468
32721111	Flat glass (float, sheet, and plate process), made by flat glass producers	N N	X	X	1 984 378 1 888 468
3272111100	Flat glass (float, sheet, and plate process), made by flat glass producers <sup>1</sup>	8 6	×	X	1 984 378 1 888 468
3272114	Other glass products, made by flat glass producers	N	×	×	676 330
32721141	1997 Other glass products, made by flat glass producers	N N N	X X X	X X X	676 291 N
3272114111	Rolled and wire glass, made by flat glass producers	5 N	x x	x x	D N
3272114121	Tempered glass for construction, architectural, and automotive purposes, made by flat glass producers <sup>2</sup>	6 N	×	X	320 577 N
3272114131	Tempered glass for other uses (including appliances), made by flat glass producers <sup>3</sup>	3	x	x	D
3272114193	Other glass products (including laminated, multi-glazed and sealed insulating glass units, bent, enameled, stained, leaded, faceted, and colored slabs), made by flat glass producers*	N 11	x x	x x	N 291 484
3272114Y	Other glass products, made by flat glass producers, nsk	N N	XX	XX	N 39
3272114YWV	1997	N N N	X X X	X X X	N 39 N
327211W	Flat glass manufacturing, nsk, total	N N	X X	X	46 13
327211WY	Flat glass manufacturing, nsk, total	N N	x x	x x	46 13
327211WYWW	Flat glass manufacturing, nsk, for nonadministrative-record establishments	N	x	x	46
327211WYWY	Flat glass manufacturing, nsk, for administrative-record establishments	N N N	X X X	X X X	13 - -

<sup>&</sup>lt;sup>1</sup>For additional detail, see Current Industrial Report MA327A, Flat Glass.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

This product code is primary to more than one industry. See industry 327215, product code 327215B111.

This product code is primary to more than one industry. See industry 327215, product code 327215B121.

This product code is primary to more than one industry. See industry 327215, product code 327215B393.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

#### Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3272111	Flat glass (float, sheet, and plate process), made by flat glass producers  United States.  California  2002. 2002. 1997.	1 984 378 1 888 468 215 326 233 862
3272114	Other glass products, made by flat glass producers  United States. 2002. California 2002. 1997.	676 330 N 54 899 N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

### Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
327211	Flat glass manufacturing		_
00900001	Total materials	X	651 346
21232200	1997   Glass sand, all types	X	606 034 154 882
32518104	1997   1997   2002   1997	X X X	78 506 118 603 N
325000A9	Industrial inorganic chemicals (excluding sodium carbonate)	x	38 174
32500055	1997   Other chemicals and allied products	X	42 386 33 210
32721103	Glass (float, sheet and plate)	X X X	12 985 27 745 23 284
32221001	Paperboard containers, boxes, and corrugated paperboard	X	11 409
32192001	Wood boxes, pallets, skids, and containers	X	15 471 46 398
00190028	1997   Cullet (glass scrap)	X	67 629 43 169
	1997	X	36 755
00970099	All other materials and components, parts, containers, and supplies	X	147 986
00971000	Materials, ingredients, containers, and supplies, nsk	X X X	N 29 770 26 114

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.